

Comparisons of Job Characteristics

Focus Occupation: Soil and Plant Scientists (19-1013)

Associated Occupation: Life, Physical, and Social Science Technicians, All Other (19-4099)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 63

Focus Occupation: Soil and Plant Scientists (19-1013)

Associated Occupation: Life, Physical, and Social Science Technicians, All Other (19-4099)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Computers and Electronics	8.4	15.0	12.2	< Expanded education and/or training may be required
Customer and Personal Service	11.3	14.6	5.9	<< Extensive education and/or training may be required
Geography	3.9	10.9	12.6	> Current knowledge level is likely sufficient
Biology	3.7	10.6	18.5	>> Current knowledge level is likely more than sufficient
Food Production	2.1	10.6	13.1	> Current knowledge level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 79

Focus Occupation: Soil and Plant Scientists (19-1013)

Associated Occupation: Life, Physical, and Social Science Technicians, All Other (19-4099)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Systems Analysis	6.5	9.2	11.8	> Skill level is likely sufficient
Mathematics	6.2	9.0	10.6	> Skill level is likely sufficient
Science	4.5	9.0	16.0	>> Skill level is likely more than sufficient
Equipment Maintenance	3.5	7.2	1.0	<< Extensive development of skills in this area may be required
Repairing	3.4	6.9	1.0	<< Extensive development of skills in this area may be required
Equipment Selection	3.3	5.6	1.2	<< Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 91			
Focus Occupation: Soil and Plant Scientists (19-1013)					
Associated Occupation: Life, Physical, and Social Science Technicians, All Other (19-4099)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Category Flexibility	9.0	10.7	13.3	>	Current ability level is likely sufficient
Mathematical Reasoning	6.3	10.1	10.3	0	Current ability level may be sufficient
Flexibility of Closure	7.8	9.7	10.0	0	Current ability level may be sufficient
Number Facility	6.3	8.8	10.7	>	Current ability level is likely sufficient
Time Sharing	6.6	8.2	6.1	<<	Extensive improvement in abilities may be required
Depth Perception	5.3	7.9	7.5	0	Current ability level may be sufficient
Memorization	5.6	7.3	7.1	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

There are no common work activities.

Tools and Technologies that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 68
Focus Occupation: Soil and Plant Scientists (19-1013) Associated Occupation: Life, Physical, and Social Science Technicians, All Other (19-4099)		
Tools and Technologies	Exclusivity	
Audio and visual equipment	4	
Business function specific software	1	
Cameras	2	
Computers	1	
Content authoring and editing software	1	
Data management and query software	1	
Development software	4	
Electrochemical measuring instruments and accessories	9	
Humidity and moisture measuring instruments	15	
Industry specific software	1	
Information exchange software	1	
Light and wave generating and measuring equipment	4	
Radar and sonar systems and components	24	
Soil measuring equipment	20	
Spectroscopic equipment	10	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.